			1Y
Notice of Allowability	Application No.	Applicant(s)	
	10/711,151		
	Examiner	Art Unit	
	My-Trang N. Ton	2816	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOR of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	pplication. If not included n will be mailed in due co	urse. THIS
1. This communication is responsive to <u>Tel. Int. 11/14/05</u> .			
2. The allowed claim(s) is/are <u>1-20</u> .			
 Acknowledgment is made of a claim for foreign priority under a)	been received. been received in Application No cuments have been received in this	national stage application	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			ΓICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson (b) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review (PTO	·	
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the draw ne header according to 37 CFR 1.121	ings in the front (not the ba (d).	ack) of
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F 			e the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary		152)
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./Mail Da 8), 7. ⊠ Examiner's Amend		
Paper No./Mail Date 8/27/04 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statem	ent of Reasons for Allowa	ance
	9. 🗌 Other	mylrangla	\sim
,		MY-TRANG NUTO PRIMARY EXAMINE	

Application/Control Number: 10/711,151

Art Unit: 2816

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Auvinen on November 14, 2005.

The application has been amended as follows:

In the claims

In claim 1,

line 15, after "response to", replace – an inverse of the up input – with "the up input being inactive --;

line 17, after "response to", replace – an inverse of the down input – with "the down input being inactive --.

In claim 2, lines 4 and 5, before "inverse", replace "the" with - an --.

In claim 3, lines 5 and 7, before "inverse", replace "the" with - an --.

In claim 9, line 3, before – reference --, replace "a" with – the --.

In claim 15, line 2, after "between", replace "a" with – the --.

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

The present invention is drawn to a charge pump utilizing a fixed current source (or fixed current source means), a variable current source (or a fixed sink transistor, a

Application/Control Number: 10/711,151

Art Unit: 2816

variable sink transistor or variable current source means), first - second driver transistors (or first – second driver means), first – second series transistors (or first – second series transistors), a sampling capacitor (or sampling capacitor means), and a sampling switch (or first - second switch transistors or sampling switch means) recited in claims 1-20. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: the combination of: the fixed current source, the variable current source, the first – second driver transistors, the first – second series transistors, the sampling capacitor and the sampling switch as recited in claim 1; the combination of : the current source, the first second driver means, the first - second series transistors, the first - second switch transistors, the sampling capacitor, the fixed sink transistor and the variable sink transistor as recited in claim 17; the combination of: the fixed current source means, the variable current source means, the first – second driver transistors means, the first – second series transistors means, the sampling capacitor means and the sampling switch means as recited in claim 19.

The prior art references submitted by the applicant on IDS form received on 8/27/04 was reviewed and considered. These references appear to be the best references with respect to the claimed invention (e.g. charge pump) and closely matched most of the references found during the examiner's searches. However, as noted above, the combination of all elements as recited in claims 1, 17 and 19 is not disclosed. Therefore, the claims are patentably distinct over all these prior art references of record.

Application/Control Number: 10/711,151

Art Unit: 2816

The prior art references cited on PTOL-892 are for interest and documentation purposes only. These references also appear to be the best references with respect to the claimed invention. However, the combination of all elements as recited in claims 1, 17 and 19 is not disclosed. Therefore, the claims are also patentably distinct over all these prior art references of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MY-TRANG NUTON PRIMARY EXAMINER

11/14/05